Welch Allyn®
Kreativ®

KOMPRESSOR

SERVICE MANUAL

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1. General Information

1.1 Introduction

The Welch Allyn Kreativ Kompressor is a compact, highly reliable, state of the art instrument designed for use with Welch Allyn KREATIV Air Abrasion systems. It is designed as a stand alone means of supplying clean dry air for use by these systems.

Note: Use of the Kompressor system in a set up that is not included or suggested in this instruction guide is not advised. Similarly, the Kompressor system should be only used by someone who is thoroughly familiar with this manual.

1.2 Purpose of Manual

This manual should be thoroughly studied before installing, using, or performing maintenance on the equipment. Please feel free to call Welch Allyn Kreativ or their representative if you need additional information regarding installation, operation, or service of the instrument.

Information essential to the installation, operation, and routine maintenance of the Kompressor system manufactured by Welch Allyn Kreativ, is included in this manual. The instructions are written specifically for personnel who have been trained to perform maintenance on the unit.

1.3 Safety Summary

1.3.1 Read This Manual

Prior to operating or servicing the Kompressor, this manual must be read and understood. If something is not clear, call the factory for assistance before proceeding. Keep this and other associated manuals for future reference.

1.3.2 Use Proper Power Connections

Use proper wiring and connection methods to satisfy appropriate electrical codes.

1.3.3 Do Not Remove Covers Or Panels

To avoid electrical shock hazard, do not remove covers or panels when power is supplied to the unit. Do not operate the device when the covers or panels are removed.

1.3.4 Shock Hazard

Connect the Kompressor to a properly grounded outlet in accordance with the National Electrical Code.

WARNING: Do not under any circumstance remove the ground wire or the ground prong from any power plug. Do not use extension cords with the Kompressor equipment.

1.3.5 Device Labeling

Do not under any circumstances remove any CAUTION, WARNING, or other descriptive labels from the device.

1.3.6 Other Safety Statements

Other safety statements are included within the manual text and are identified as follows:

- **CAUTION:** Caution statements identify conditions or practices that could result in equipment or property damage.
- **WARNING:** Warning statements identify conditions or practices that could result in personal injury or loss of life.

1.3.7 Cautions

Do not attempt to service the unit beyond those items described in the maintenance section. Call Welch Allyn Kreativ or their representative for instructions.

Do not substitute non-Welch Allyn Kreativ, materials or accessories. Use of materials or accessories supplied by other manufacturers may result in damage to the unit and will void the factory warranty.

Sound clinical judgment, good common sense, and proper training are essential to the successful service of the unit in order to provide safe and efficient patient care.

1.3.8 Safety Markings on Labels

Alternating current

Protective earth (ground)

Attention, consult accompanying documents

Off (power: disconnection from the mains)

On (power: connected to the mains)

Type B equipment

1.4 Applications

The Kompressor is designed for simple, reliable, and efficient operation with minimal maintenance. The Welch Allyn Kreativ Kompressor system is designed to deliver continuous air pressure and flow.

1.5 Contraindications

Welch Allyn Kreativ products are designed for use by and on the order of a dentist. Furthermore, Welch Allyn Kreativ products are not intended to be used outside the device's specifications or limitations. Results are not guaranteed or warranted if other than approved (Welch Allyn Kreativ) disposable products are used.

1.6 Environmental Considerations

Prior to the installation of the Kompressor air abrasion unit, it will be necessary to provide utilities and create an environment suitable for the trouble-free operation of the equipment.

1.6.1 POWER

All components operate on 120 VAC (220 VAC International), single phase power. The use of surge protectors is recommended when possible.

1.7 System Specifications

Size	16" W x 23" H x 20.5" D (6.3 cm W x 9 cm H x 8 cm D)
Weight	75 lbs. (34 kg)
Environment	
Operational	Temp: 50°F (+10°C) to 104°F (+40°C)
	Relative humidity: 30% to 75%
	Pressure: 10.15 psi (70 kPa) to 15.3 psi (106 kPa)
Transport and Storage	Temp: -40°F (-40°C) to 158°F (+70°C)
	Relative humidity: 10 % to 90 %
	Pressure: 7.25 psi (50 kPa) to 15.3 psi (106 kPa)
Equipment Classification	Class I (requires an electrical earth ground) and ordinary protection against ingress of water. This unit is designed for continuous operation.

2. Theory of Operation

2.1 Introduction

The Kompressor is made for use with a Welch Allyn Kreativ air abrasion system.

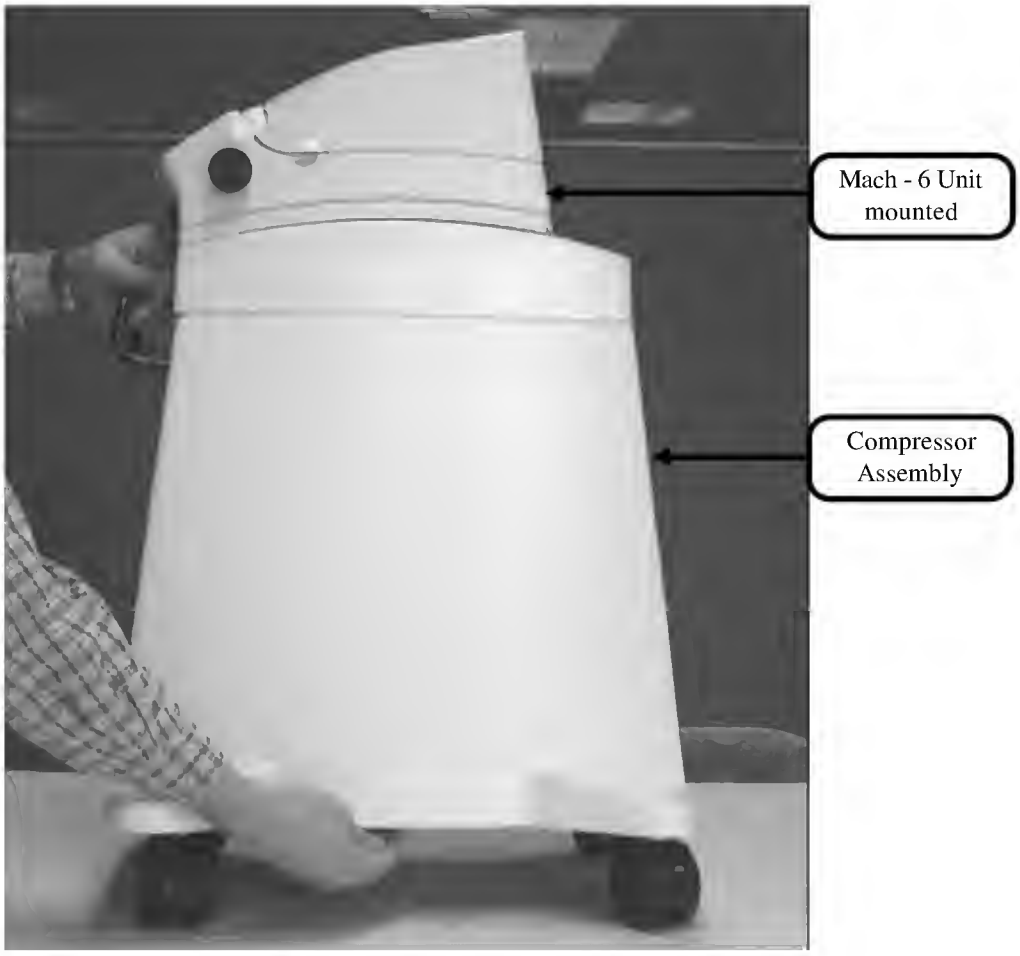

Figure - 1 Compressor Assembly with mounted Mach-6

2.2 Functional Description

When the unit is initially turned on, the fan energizes and the compressor will turn on allow the accumulator tanks to pressurize. Once 160 PSI is reached, the compressor motor turns off by action of the mechanical/electrical pressure switch and motor start relay. Upon turning off of the compressor motor, the head pressure release valve dumps the head pressure into the oil collection bottle. As air is drained from the accumulator tanks, when the pressure in the lower tank reaches 125 PSI, the compressor motor turns on, at the same time, the Tank Purge valve opens, for

approximately 1 second, and purges the oil/water in the bottom of the air tank then closes and the compressor turns on.

2.3 Component Identification (refer to Figure - 2, 3, and 4)

2.3.1 Compressor Motor

The compressor motor is an oil bath version capable of delivering 1.2 CFM @ 120 psi. The motor can be rated at 120 VAC or 240 VAC.

2.3.2 Air Input Muffler

The air input Muffler keeps dirt out of the internal oil bath. The motor is shipped with a cap in this location to avoid oil spillage during transportation. It must be removed and replaced with the filter before applying power.

2.3.3 Starter Capacitor

The starter capacitor comes with the motor and is located under the electrical box.

2.3.4 Mechanical/Electrical Pressure Switch & Motor Start Relay

The pressure switch module is mounted to the lower air tank, and has a plastic cover with an Off / Auto switch located on top. Leave this switch in the Auto position. An mechanical/electrical pressure switch starts the motor when the pressure drops to 125 PSI and stops the motor when the pressure reaches 160 PSI. It also opens the tank purge valve (for a second or two) each time the motor starts, and opens the head pressure release valve each time the motor shuts off. The motor On/Off set point is adjusted by screws under the plastic cap.

2.3.5 Head Pressure Release Valve (Unloader valve)

The head pressure release valve opens each time the motor shuts off, and dumps the pressurized air/oil from the motor head into the oil collection bottle. This makes it easier for the motor to start. It is mounted underneath the mechanical/electrical pressure switch assembly.

2.3.6 Tank Purge Valve

The tank purge valve, located next to the air shut off valve, opens for one second each time the motor turns on. This valve purges the oil/water that collects at the bottom of the air tank into the oil collection reservoir.

2.3.7 Upper Air Tank

The upper air tank is a 1.5 liter tank mounted horizontally above the compressor motor.

2.3.8 Check Valve

The check valve allows air flow into the upper air tank, but not out of.

2.3.9 Blow Off Valve

The blow off valve, a spring loaded safety release valve (set @ 175 ± 7 psi) is attached to the bottom of the upper air tank.

2.3.10 Lower Air Tank

The lower air tank, 1.5 liter tank mounted vertically, is located next to the compressor motor. The pressure switch assembly, shut off valve, pressure gauge, and tank purge valve are in the lower air tank.

2.3.11 Pressure Gauge

The pressure gauge, mounted on the lower air tank, indicates tank pressure. Used to monitor motor turn on and off pressures as set by the pressure switch. For quick reference only.

2.3.12 Air Shut Off Valve

The air shut off valve isolates the system regulator and filter bank from the tanks. This valve is a multi-turn gate valve. It is located on the lower air tank assembly. It should be fully open under normal conditions.

2.3.13 System Regulator

The system regulator, attached to the filter bank, is adjusted to 130 psi and supplies this pressure to the outside connector.

2.3.14 Oil Removal Filter

The oil removal filter, next to the system regulator, removes 99.9% of oil and moisture. The filter has a manual drain on the bottom of the filter. If moisture or oil is noticed, pushing the drain will allow the moisture or oil to drain into the oil collection reservoir.

2.3.15 Odor Removal Filter

The odor removal filter, next to the oil removal filter, has an active carbon element. It has a filtration level of 0.01um (95% scavenging particle size).

2.3.16 Ambient Dryer

The ambient dryer, next to the odor removal filter, is designed to remove all water vapor from the air when at ambient temperature.

2.3.17 Oil Collection Reservoir

The oil collection reservoir, is located in the unit back near the bottom. The filter element traps all oil and moisture while allowing air to escape. Used as a collection reservoir for tank purge and head pressure release valves, and for the oil filter flushing process. The user must monitor and empty this filter before the bottle becomes full or overflows.

2.3.18 Circuit Breaker On/Off Switch

The On/Off switch, is also a circuit breaker. It is on the back lower panel. Internal connections are protected by a safety shield. The circuit breaker is rated at 12 Amps in the 120 volts AC and 6 Amps in the 240 volt AC systems.

2.3.19 AC Terminal Block

The AC terminal block is located under the safety shield and is used to distribute power to the compressor motor, the cooling fan, and the auxiliary power supply cable.

2.3.20 AC Cooling Fan Motor

The AC Cooling fan is energized when the On/Off switch is on. It is aimed at the upper air tank to help cool the system, and the air heated by the compressor motor.

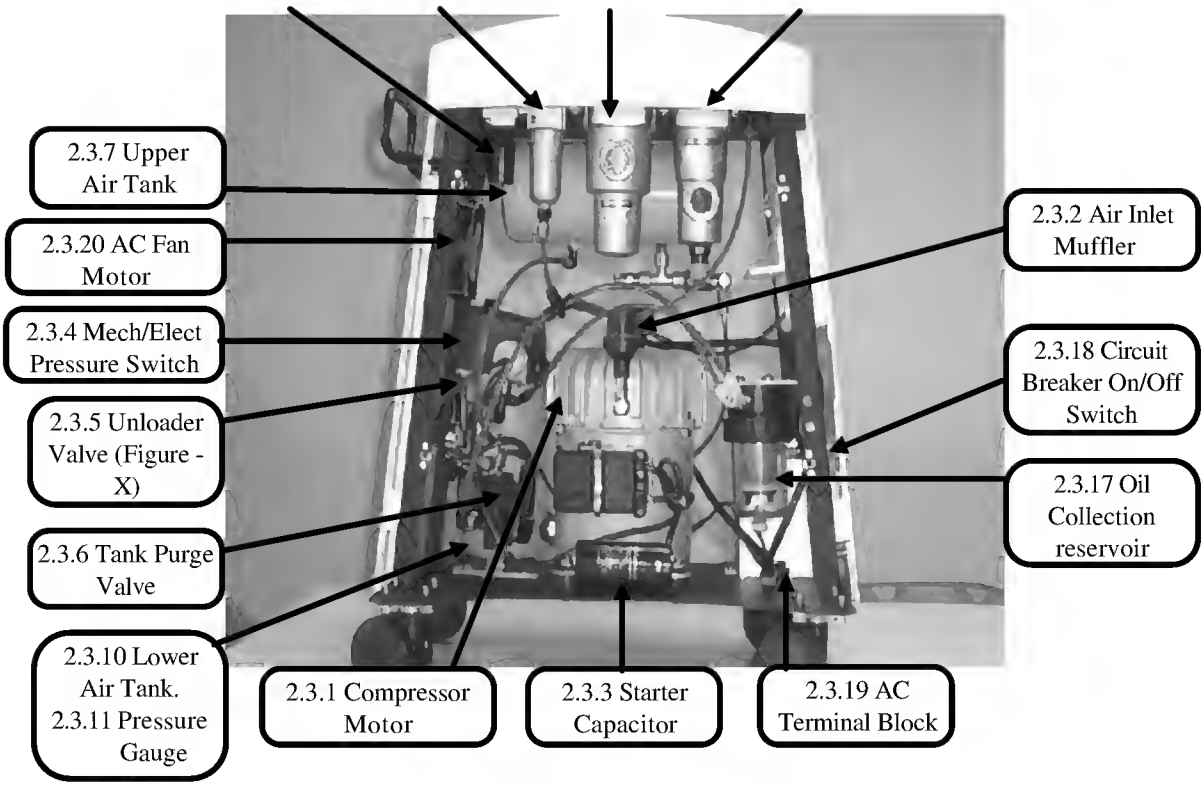
2.3.7 Upper Air Tank
2.3.20 AC Fan Motor
2.3.4 Mech/Elect Pressure Switch
2.3.5 Unloader Valve (Figure - X)
2.3.6 Tank Purge Valve
2.3.10 Lower Air Tank. 2.3.11 Pressure Gauge
2.3.1 Compressor Motor
2.3.3 Starter Capacitor
2.3.19 AC Terminal Block
2.3.2 Air Inlet Muffler
2.3.18 Circuit Breaker On/Off Switch
2.3.17 Oil Collection reservoir

Figure - 2 Kompressor components

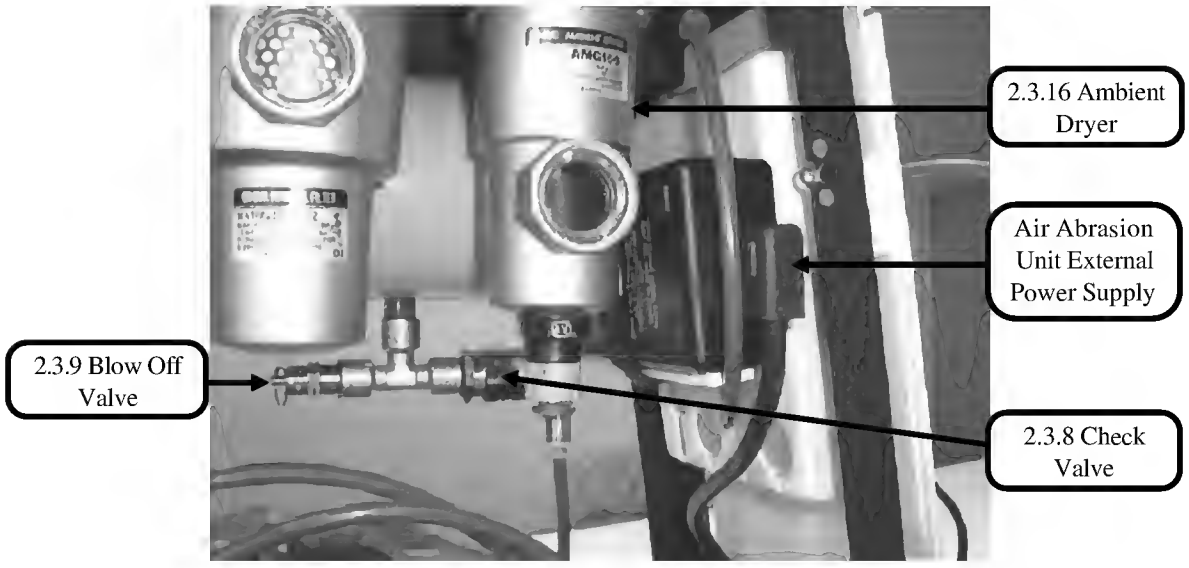

Figure - 3 Kompressor components.

Figure - 4 Kompressor components

Compressor System Block Diagram

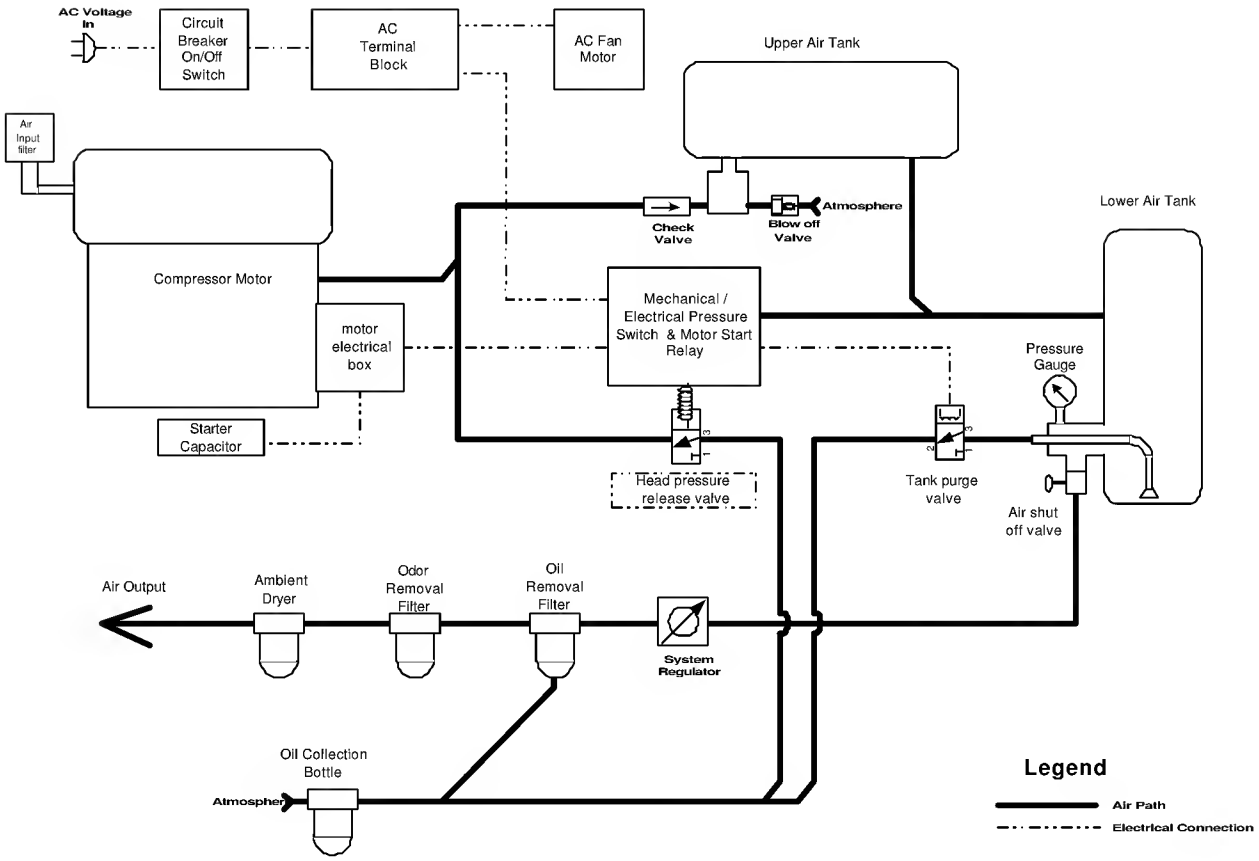

Figure - 5 Kompressor Block diagram

3. ROUTINE MAINTENANCE

3.1 Routine Maintenance of the Kompressor

Welch Allyn Kreativ Kompressor system has been designed to operate with a minimum of operator attention. Like all mechanical systems, they will operate longer and with less trouble when operator maintenance is performed regularly. Maintenance on a Welch Allyn Kreativ Kompressor system is limited to visual inspection, cleaning, and filter cartridge replacement. The maintenance procedures have been categorized by their frequency of action and are described in this chapter with specific instructions.

3.2 Monthly Requirements

3.2.1 Check Oil Level

The Kompressor is equipped with an internal air compressor. The air compressor does not require any general maintenance except adding oil. The compressor is equipped with a oil site glass or viewing window that has a minimum/maximum indicator line to help the user identify when oil is required.

Figure - 6 Oil Site Glass

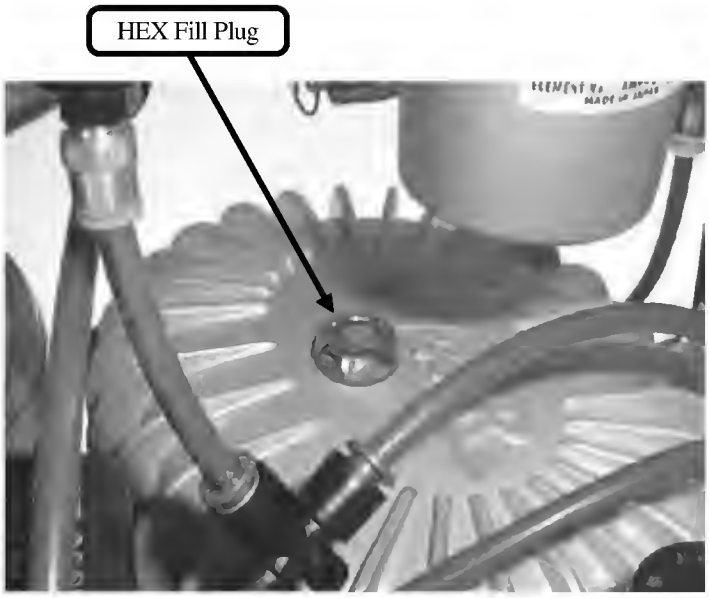

Figure - 7 Kompressor Hex Plug

To add oil perform the following:

1. Ensure that the unit's power is in the OFF position, and remove the power cord from the electrical outlet.
2. Open the right side door.
3. With a crescent wrench, remove the top hex plug (figure - 7), located on the top center of the compressor head, by turning counterclockwise.
4. The Kompressor is shipped with extra oil (K99-00116-1) and tubing for future use.

   NOTE: Use factory-specified oil only.
5. Cut a small portion of the oil container nipple. Slide the tubing onto the oil container nipple.
6. Set the open end of the hose into the hole where the hex plug was removed.
7. Gently squeeze the container of oil, pour a small amount and then stop and let the oil level settle before adding more.

   NOTE: Following step 7 will prevent overfilling the Kompressor and ultimately the oil collection bottle.
8. Repeat step 7 until the oil level settles just below the maximum line. Discontinue adding the oil by removing the tubing.
9. Replace the hex plug, and ensure that it is tight.

3.2.2 Intake Muffler

The Kompressor is equipped with an intake muffler/filter. This muffler should be checked every month for cleanliness. The muffler looks like that in figure - 8.

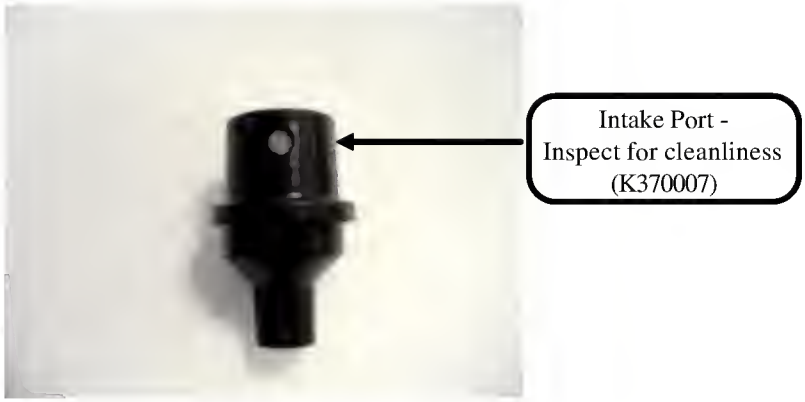

Figure - 8 Jun Air Muffler

3.2.3 Check and Drain Oil Removal Filter and Ambient dryer

Every month the Ambient dryer should be checked for moisture.

Every month the Oil Removal filter should have the manual drain exercised to remove any oil or moisture that may have accumulated in it (refer to Figure - 9).

Every month the Odor Removal filter should be inspected for moisture.

If excess oil and/or condensation are found, the Kompressor should be assessed and repair performed as needed.

Figure - 9 Manual Drain fittings

3.3 Annual Requirements

3.3.1 Filter replacements

There are 5 filter assemblies that should be changed once a year at a minimum.

Oil Collection Bottle filter replacement	1 each	(K480105)
Ambient Dryer Filter replacement	1 each	(K480100)
Odor Removal Filter Assembly	1 each	(K480007)
Oil Removal Filter replacement	1 each	(K480099)
Air Intake Muffler replacement	1 each	(K370007)

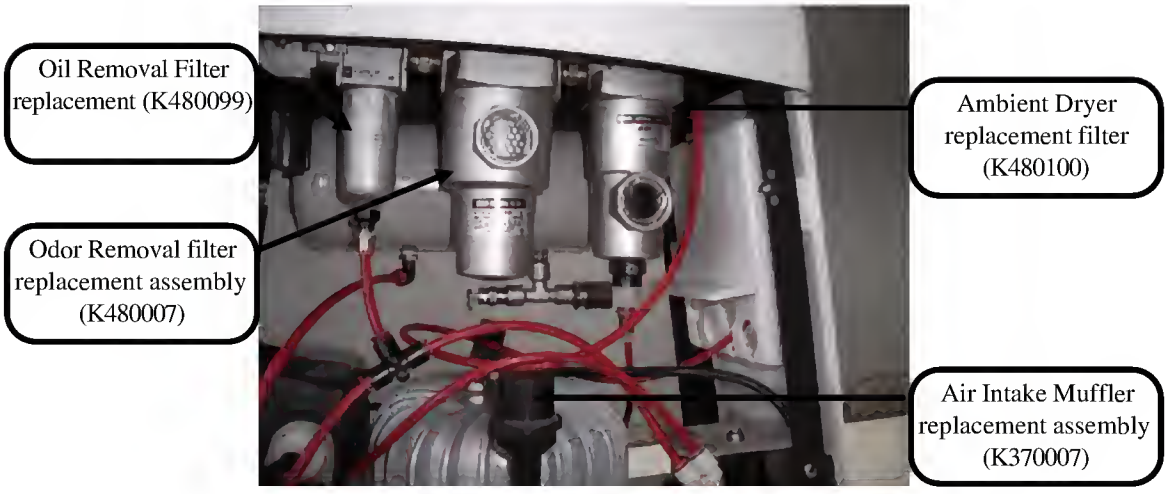
Oil Removal Filter replacement (K480099)
Odor Removal filter replacement assembly (K480007)
Ambient Dryer replacement filter (K480100)
Air Intake Muffler replacement assembly (K370007)

Figure - 10 Filter locations

Figure - 11 Oil Collection bottle

3.3.2 Oil Removal, Odor Removal, and Ambient Dryer filter replacement

To replace these 3 filters, follow the following instructions.

1. Verify the system has no leaks before maintenance is performed. To do this perform the following steps:
    a. Energize the system and allow pressure to build.
    b. After Kompressor has stopped, the gage on the unit should maintain pressure without decreasing.
    c. If the pressure decreases, repair leak prior to performing maintenance.

1. Disconnect AC power.
2. Unlatch and remove the left and right side panels using the hex key provided in the accessory kit.
3. Depressurize the system by pressing the manual valve on the bottom of the Oil Removal Filter.
4. When the pressure has bled off, disconnect and remove the Mach 6 unit from the top of the Kompressor.
5. Remove the 4 phillips screws holding the top of the Kompressor to the frame (refer to figure - 12).
6. Remove the top and set aside for re-assembly.
7. Disconnect the tubing going into the System regulator, the drain out of the Oil Removal filter, and the out put of the Filter Assembly (refer to Figure - 13).
8. Remove the two phillips screws holding the filter assembly to the frame (refer to Figure - 13).
9. Remove the Filter Assembly.

    NOTE: After removal of Filter assembly components, all joints should be resealed with Pneumatic Sealant.

10. Disassemble and replace the Ambient Dryer Filter Element. Set aside for re-assembly.
11. Remove and discard the Odor Removal Filter.
12. Disassemble and replace the Oil Removal Filter element.
13. Reassemble the Oil Removal Filter.
14. Replace the Odor Removal Filter.
15. Reassemble the Ambient Dryer.
16. Reverse steps 5 - 9 to reassemble the unit.
17. When unit is reassembled, energize leak test the unit.
18. To leak test the unit, allow system to pressurize and for the compressor to quit. The compressor system should maintain the gage pressure without dropping down.
19. If the pressure decreases, the system has a leak, troubleshoot, repair, then retest.

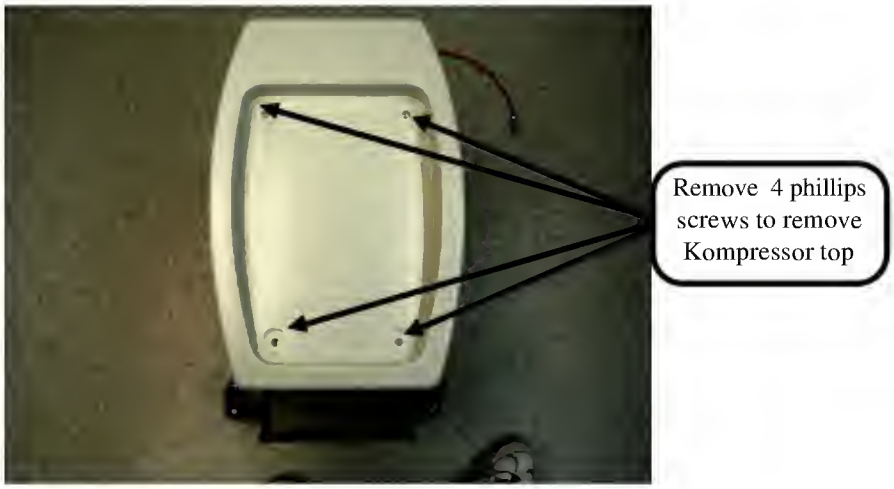

Figure - 12 Kompressor Top Removal

Figure - 13 Filter Assembly Removal

3.3.3 Oil Collection bottle filter and O ring replacement

1. Shut down the Kompressor system.
2. Remove AC power from the system.
3. Remove the bowl on the Oil Collection filter.
4. Remove and discard the filter by unscrewing the element retainer (refer to Figure - 16).
5. Remove the discard the "O" Ring (refer to Figure - 15).

Figure - 14 Oil Collection Bottle (K170222)

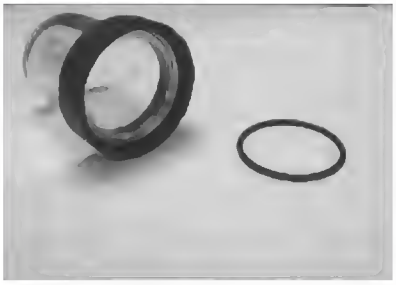

Figure - 15 Bowl and "O" Ring (K370026)

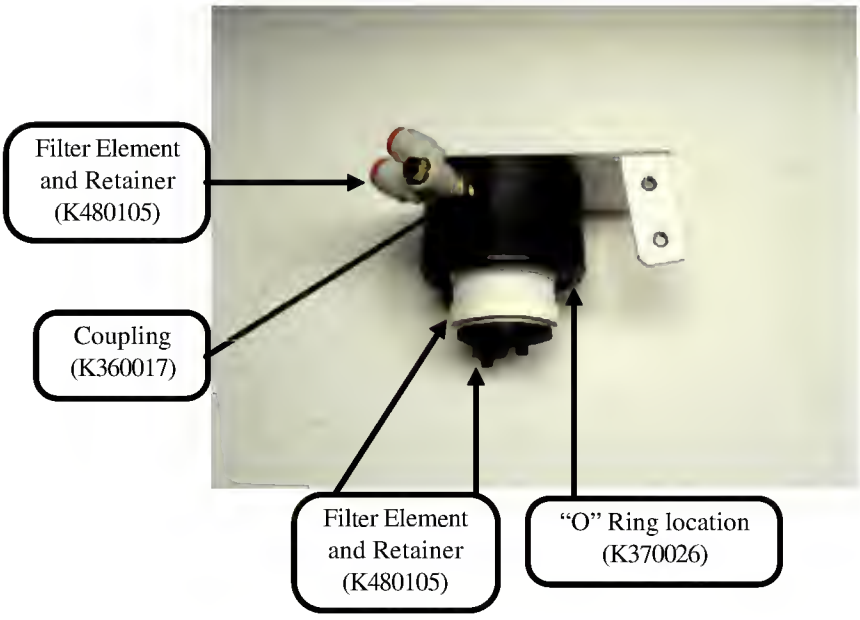

Figure - 16 Oil Collection bottle parts and locations

1. After all filters have been replaced and reinstalled, the Kompressor will need to be tested and adjusted by performing the following procedure:

    a. Tools Required

        Crescent wrench

        "Anti-sabotage" compound

Calibrated air pressure gauge 0-200 PSI, 2 PSI increments

2. Setting the Compressor Regulator
3. The compressor should turn on @ 130 PSI and turn off at 165 PSI to function correctly. To ensure the compressor is set properly, a pressure gauge calibrated to NIST standards must be utilized.

NOTE: Do not depend on the pressure gauge supplied by the compressor manufacturer as the

Kreativ factory has recognized the gauges are not accurate.

4. Compressor motor "turn-on/turn-off" pressure switch.
    - **a.** Turn power off, close main air valve, and release pressure by pushing up on the black collar at the bottom of the oil removal filter.
    - **b.** Insert a "T" fitting and calibrated pressure gauge in the tube between the lower tank assembly and the oil removal filter.
    - **c.** Fully open the main air valve, and turn the power ON.
    - **d.** The motor should stop when the system is pressurized. If not, fix the problem before continuing.
    - **e.** With the system fully pressurized, monitor the pressure gauge to verify that there are no air leaks. If the gauge needle is moving or if it changes after 30 seconds, there is a leak. Fix the leaks before continuing.
    - **f.** With the tank pressurized, and the compressor motor off, create a slow leak (by pushing up on the black collar of the oil removal filter), observe the pressure gauge, allow the pressure to drop to 130 psi, and stop the leak. If the compressor motor turned on before dropping to 130 to 132 psi, or if it didn't turn on at all, it must be adjusted. If the compressor motor turned on between 130 and 132 psi, skip the next two steps.
    - **g.** To adjust the "turn-on-pressure" of the compressor motor, remove power from unit, remove the plastic cap on top of the lower tank assembly. Locate two spring loaded adjustment screws inside. Using a 7mm nut driver or wrench, tighten the screws to increases the pressure setting, and un-tighten to decreases the setting. Always adjust both screws equally.

      Note Always remove power from the unit before making this adjustment. If power is not turned off, there is live AC voltage under the plastic cap, and special care must be taken to avoid injury.

    - h. With the motor is turned off, and the pressure gauge reading 130 psi, adjust the screws until you hear the switch click. Reconnect power and turn the unit on. Monitor the pressure gauge as the tank pressurizes, and verify that the upper pressure limit does not exceed 167 psi. The adjustment screws change both the lower and upper pressure limits at the same time, so it is necessary to cycle the system at least three times to insure proper calibration.
    - i. Keep turning power ON and OFF, and adjust the screws until the lower pressure limit is between 130 &I32 psi. Verify that the upper pressure limit does not exceed 167 psi. There is no adjustment for the hysteresis band, so if the system is set to the proper lower limit and the upper limit is too high, there is a problem with the pressure switch. Replace the pressure switch and re-calibrate if necessary.
    - j. Record the "Turn-ON" and "Turn-OFF" pressures on the COMPRESSOR TEST DATA FORM.
    - k. When the pressure is properly adjusted, turn the unit OFF, close the main air valve, and release pressure using the black collar on oil removal filter.
    - l. Replace the plastic cap on the top of the pressure switch, tighten the bolts on the bottom of the lower tank assembly, and remove the pressure gauge and "T" fitting.
    - m. Initial and date the COMPRESSOR TEST DATA FORM when the above items are complete and the workmanship is satisfactory.

Output Pressure Regulator Adjustment.

Insert a "T" fitting and calibrated pressure gauge in the tube between the output of the system pressure regulator, and the connector at the end of the output air hose.

Fully open the main air valve, turn the unit ON, and wait for the system to fully pressurize.

Adjust the regulator output to 130 psi.

Release pressure out the end of the hose, and verify the regulator output is still at 130 psi. If not readjust and repeat this step. When the pressure is properly adjusted, apply Torque Seal P/N 450008 to the regulator adjustment knob.

Turn the unit OFF, close the main air valve, and release pressure using black collar on oil removal filter.

Remove pressure gauge and "T" fitting, and fully open main air valve.

Initial and date the COMPRESSOR TEST DATA FORM when the above items are complete and the workmanship is satisfactory.

NOTE: Extreme caution should be used as line voltage terminals are exposed. With a 7 mm wrench individually adjust each nut one rotation until the compressor turns on at 130 PSI.

NOTE: It is important that the springs remain equal. When the compressor turns on at 130 PSI the compressor pressure switch is set properly.

Setting the System Regulator

16. The system regulator should be set at 130 PSI. The system regulator is located on the left side frame .
17. To check the system regulator pressure, turn the accumulator tank shut off valve clockwise to close.
18. Remove the hose (red) from the input side of the main air solenoid (Mac Valve). The main air solenoid (Mac Valve) is located center on the bottom of the mounting panel. The hose is attached with a push style fitting.
19. Insert NIST test gauge into output side of the system regulator.
20. Turn the accumulator tank shut off valve counterclockwise to open.
21. Observing the test gauge, the pressure should read 130 PSI. If not, adjust regulator by pulling up the knob and turn clockwise to increase pressure or counterclockwise to decrease pressure until 130 PSI registers. Push down on regulator to set.
22. Place a small amount of "anti-sabotage" lacquer compound on the top of the regulator to identify the regulator has been set.

3.4 2 Year Maintenance Check

Change the Compressor Oil

1. Turn unit to "STAND-BY".
2. Turn off main power switch in rear of unit.
3. Disconnect power and air source, if applicable.
4. Remove the nut from the top of the compressor module (this is the portion located toward the front of the unit).
5. Using a 60 or 100 cc Syringe and a 1 ' piece of tubing (syringe must be completely depressed), insert the tubing into the top of the compressor assembly.
6. Using the syringe, slowly draw the syringe plunger out. To extract the oil.
7. When the syringe is full, remove the tubing from the compressor and discard the oil in a container for disposal.

NOTE: Oil disposal laws will vary from state to state. Follow the laws in your area for proper disposal procedures of oil.

8. When the oil removed totals approximately 1.7 bottles (K99-00116-1).
9. Replace the oil by putting the ¼ " hosing on the Oil bottle and slowly fill the chamber. Install small amounts of oil and let settle. Then install more.

NOTE: Be careful not to overfill the compressor.

10. When the level is correct for the type of compressor identified, replace the fill hardware.
11. Test operate the system and verify no oil leaks are present.

3.4.1 Maintenance Checks

			Time
PM 1	**Maintain Overflow Filter (6 months)**		.25 hour
	Clean out bowl, filter, and base threads		
PM 2	**Replace the Compressor Filters (12 months)**		1.0 hour
	Oil Collection Filter and "O" ring	K480105/K370026	
	Replace Compressor Intake Muffler/Filter	K370007	
	Replace Oil Removal Filter	K480099	
	Replace Odor Removal Filter	K480007	
	Replace Ambient Dryer filter	K480100	
PM 3	**Change the filters and compressor oil (24 months)**		1.5 hour
	Change the compressor oil (2 bottles)	K99-00116-1	
	Replace the Compressor Intake Muffler/0Filter	370007	

4. TROUBLESHOOTING

4.1

PROBLEM	SYMPTOM(S)	SOLUTION
Will not maintain pressure.	Gauge pressure decreasing	■ Locate and repair air leak ■ Contact authorized repair center
Compressor will not Run		■ Unit not Plugged in. ■ Travel Pug still installed - Remove the plug and install Muffler ■ Circuit breaker tripped - Reset and restart ■ Contact authorized repair center
Oil Collection Bottle full		■ Oil leak ■ Kompressor overfilled ■ Contact authorized repair center
Oil all over inside of Compressor module	Oil leak	■ Kompressor overfilled ■ Locate and repair Oil leak ■ Contact authorized repair center

5. Spare Parts List

5.1 Tubing

Part Number	Description
K390003	Tubing ¼ OD Nylon

5.2 Filters/Mechanical Pneumatic Components

Part Number	Description
K480100	Filter element (replacement for K99-00264-1)
K480099	Filter Element (replacement for K480006)
K480105	Filter Element (replacement for K480102)
K370026	O Ring Buna 2.1" for K480102
K370007	Muffler, Intake, Jun Air
K480007	Filter, Odor Removal
K480006	Filter, Oil Removal
K99-00264-1	Ambient Dryer
K350005	Unloader Valve
K350016	System Regulator
K170222	Oil Collection Bottle Assembly
K480103	Bracket, Odor Removal Filter
K210266	Bracket, Oil Collection Filter

5.3 Fittings

Part Number	Description
K360008	Fitting ¼ x ¼ Push
K360028	Fitting 10-32 Male
K360030	Fitting, Union, 1/8" NPT x ¼" Tee, QD
K480098	Spacer Modular
K99-00106-1	Fitting Quick disconnect
K99-00316-1	Fitting Pipe Hex Nipple ¼

5.4 Accessories & Other

Part Number	Description
K99-00002-1	Goggles
K99-00116-1	Oil, JunAir, 20 oz.
K460031	Wrench 1/8 Hex Allen
K480104	Hole Plug, Nylon
K460019	Cable Ties, Black
K570012	Cinch Strap
K99-00328-1	Grommet, Caterpillar
K600324	Power Cord, 115VAC
K600301	12 Amp Circuit Breaker, 115 Volt AC
K600325	6 Amp Circuit Breaker, 230 Volt AC
K990287	Manual, Operators

5.5 Adhesives

Part Number	Description
K99-00310-1	Locktight, 292, Threaded Connections
K450000	Locktight, 680, Permanent Connection
K460015	Lubricant, Superlube
K99-00297-1	Pneumatic Sealant, High Pressure Connections
K500014	Fan, 115 Volt AC
K500015	Fan, 230 Volt AC
K450008	Seal, Torque, Anti-Sabotage Inspectors

5.6 Chassis Components

Part Number	Description
K210238	Side Panel, Molded
K480096	Castor
K210248	Kompressor Handle
K99-00328-1	Grommet, Caterpillar
K210239	Top, Molded

5.7 Maintenance Kits

Part Number	Description
K140070	Service Manual Kit
K150035	Kit Kompressor One year maintenance
K140059	Kit Accessory, Kompressor

6. Warranty, Returns and Adjustments

6.1 Returns and Adjustments

Warranty claims must be made promptly and received by your nearest authorized service representative during the warranty period. The liability of Welch Allyn Kreativ, under valid warranty claims, is limited to repair or replacement at the purchaser's authorized service center or the purchaser's place of business, at the option of the authorized service representative. If it is necessary to return a product for repair or replacement, authorization for the return must first be obtained from the authorized service representative.

All products returned for examination or warranty repair must be sent insured via a means of transportation specified by the authorized service representative.

Welch Allyn Kreativ, or its authorized service representative claims the sole responsibility for determining the cause of any instrument failure.

6.2 Limited Warranty

Welch Allyn Kreativ, warrants the equipment to be free from defects in material and workmanship for a period of 12 months from the date of shipment. Damage due to failure of customer to perform required user/preventative maintenance is not warranted. Certain components having limited life expectancy (tubing, handpieces, and hoses) are not warranted against normal wear and tear or customer damage. This limited warranty applies only to the original purchaser/user of the equipment.

The foregoing limited warranty is exclusive and in lieu of all other warranties, whether written, oral, or implied, and shall be purchaser's sole remedy and Kreativ's sole liability under contract or warranty or otherwise for the product.

Welch Allyn Kreativ, disclaims any implied warranty of merchantability or fitness for particular purposes. In no event shall Welch Allyn Kreativ, be liable for any incidental or consequential damages, or for any incidental or consequential damages arising out of, or in connection with, the use or performance of the product delivered hereunder.

6.3 Storage And Shipment

The Welch Allyn Kreativ Model Kompressor system have been designed for long term storage in normal dental office environments. If it is to be stored for any reason for a long period, it should be covered to protect it from adverse conditions and the Powder Canister should be emptied. The area it is to be stored in should meet the Environmental Limitations Transport and Storage Requirements indicated in Section 1.7, "System Specifications".

The unit has been designed for shipment by normal commercial carriers. Protective packaging should be used, and the original packing materials should be reinstalled for shipment. Shipping instructions must be followed closely. The customer will be responsible for damage resulting from improper packing.